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Day 02

Fire and Ice

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2.0.H Question Bank

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Motivation

- Why didn't they question the already established theories until Boyle?
- What was his inspiration to investigate cold?
- What drove Boyle to conduct these experiments?
- Was Boyle a pioneer or were other scientists researching heat/cold?
- Why did Boyle focus on cold rather than heat?
- Is there any significance behind this being the field of study for Boyle?
- Why did individuals not investigate further into the causes of things (i.e. heat, vibration) and instead choose only to study the quality of things?

Theory

- How long did it take them to agree on a uniform definition for cold?
- What were fluid theories?

Technical Issues

- In what way did the inconsistent measurements/tools affect findings?
- Does using alchemical science affect the results of their experiment?
- What tools did they use to measure the expansion of water when it froze?
- How did Boyle control how cold his experiments were?

Consequences

- How did people react to his findings?
- How did Boyle's discoveries lead to the refrigeration of food and beverages?
- How did Boyle's experiments relate to meteorology/weather conditions?

Factual questions

- What is "nitre"?
- What was the "quicksilver" mentioned in the first article?

Research questions

- Why is the air at the ocean of a more stable temperature?
- Why is water thicker and heavier in the cold weather?
- Why, if the water on the bottom of the ocean is colder, does the surface freeze?
- Since water is transparent, why can't light reach the bottom of the ocean?